

## GENES ENCODING SULFATE ASSIMILATION PROTEINS

5

## 10

10

## 15

15

35

Please scan  
def

serve to transport  
the cell (Smith et al.  
adenylyltransferase (ATP  
catalyzes the first step in  
adenosine-5'  
ic sulfur for use in the  
ate kinase (APS kinase),

As described, each of these enzymes is involved in sulfate assimilation and the pathway leading to cysteine biosynthesis, which in turn serves as an organic sulfur donor for multiple other pathways in the cell, including methionine biosynthesis. Together or singly